

# REMARKS

Applicant thanks the Examiner for examination of the  
5 application.

The drawings have been amended to comply with 37 CFR  
1.84(p)(5). Specifically, Figure 1 and Figure 2 have been  
amended to include reference number 16 and reference number 64,  
10 respectively. A copy of the proposed drawing correction is  
attached to avoid abandonment of the application. Examiner is  
requested to remove the objection of the drawings.

Claims 1-3, 15, and 17 have been canceled.  
15

Pursuant to the Examiner's request Claim 4 has been  
rewritten to overcome the rejection under 35 USC 112, second  
paragraph and to include all of the limitations of the base claim  
and any intervening claims. Thereby, Claims 4-14 are allowable.  
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Pursuant to the Examiner's request Claims 16 and 18 have  
been rewritten in independent form including all of the  
limitations of the base claim and any intervening claims.  
Thereby, Claims 16, 18-19 and 27-30 are allowable.  
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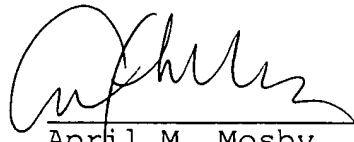
Pursuant to the Examiner's request Claim 20 has been amended  
to particularly point out and distinctly claim the subject matter  
which applicant regards as the invention. As Examiner has stated  
claims 20-26 are allowable if rewritten to particularly point out  
30 and distinctly claim the subject matter which applicant regards  
as the invention according to 35 USC 112, second paragraph.  
Thereby, Claims 20-26 are allowable.

Claims 4-14, 16, and 18-30 stand allowable.

This Amendment, submitted in response to the outstanding  
office action dated April 17, 2003, is believed fully responsive  
5 to each point of objection or rejection raised therein.

The Claims 4-14, 16, and 18-30 distinguish over the cited  
references and the application is in allowable form. Applicant  
respectfully requests reconsideration or further examination and  
10 allowance of the application.

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims:

Please cancel claims 1 - 3, 15, and 17.

Please amend claims 4, 16, 18, and 20 as follows:

1 4. (Amended) [The method of claim 3] In a wireless communication  
2 network, a method for adaptively modifying the sleep-mode  
3 behavior of a mobile station, wherein the wireless communications  
4 network includes control communications and a base station to  
5 transmit broadcast messages monitored by the mobile station, the  
6 method comprising:  
7 maintaining a record of traffic communications to the mobile  
8 station [wherein maintaining a record of communications includes]  
9 by making a record of traffic communications to the [first]  
10 mobile station over a period of time greater than a day; [and]  
11 determining cyclic patterns of traffic communication  
12 activity, in response to the traffic communications record  
13 [wherein determining cyclic patterns of traffic communication  
14 activity includes] by determining daily patterns of traffic  
15 communication activity; and  
16 reducing control communications with the wireless  
17 communications network during periods determined to have low  
18 traffic communication activity, wherein the control  
19 communications between the base station and the mobile station  
20 include a slotted mode of operation where the mobile station  
21 monitors broadcast messages transmitted at a first periodic rate  
22 and, after control communications have been reduced, the mobile  
23 station monitors broadcast messages transmitted at a second  
24 periodic rate, slower than the first rate.

1 16. (Amended) In a wireless communication networks, a method for  
2 adaptively modifying the sleep-mode behavior of a mobile station,  
3 wherein the wireless communications network includes a base  
4 station to transmit broadcast messages monitored by the mobile  
5 station, the method comprising: [The method of Claim 1 in which  
6 the base station message service is included; and]  
7 [the method further comprising:]  
8 maintaining a record of traffic communications to a mobile  
9 station;  
10 determining cyclic patterns of traffic communication  
11 activity, in response to the traffic communications record;  
12 reducing control communications with the wireless  
13 communications network during periods determined to have low  
14 traffic communication activity,  
15 [following the reducing of the control communications with  
16 the wireless communications network,] initiating a mobile station  
17 traffic communication;  
18 supplying a warning from the base station message service  
19 that the initiation of the traffic communication with the mobile  
20 station will be delayed.

1 18. (Amended) [The system of claim 17 further comprising:] In a  
2 wireless communications network, a system for adaptively  
3 modifying the sleep-mode behavior of a mobile station, the system  
4 comprising:  
5 a mobile station having a wireless communications port to  
6 communicate traffic and control communications with the wireless  
7 communications network;  
8 an interacting memory, microprocessor, and software  
9 application of machine executable instructions to maintain a  
10 record of mobile station traffic communications and, in response  
11 to the traffic communications record, determining cyclic patterns  
12 of traffic communication activity, wherein control communications

13 are reduced between the mobile station and the wireless  
14 communications network during periods determined to have low  
15 traffic communication activity; and

16 a base station to transmit broadcast messages monitored by  
17 the mobile station, the base station decreasing the frequency of  
18 transmitted broadcast messages when control communications  
19 between the wireless communications network and the mobile  
20 station are reduced.

1 20. (Amended) The system of Claim 19 wherein the memory maintains  
2 a record of communications which include a record of traffic  
3 communications to the [first] mobile station over a period of  
4 time greater than a day; and

5 wherein the software application determines daily patterns  
6 of traffic communication activity from the stored record of  
7 traffic communications.

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PATENT & TRADEMARK

